



2790 Whitten Road, Memphis, TN 38133
Main 901.213.2400 • Fax 901.213.2440
www.waypointanalytical.com

7/25/2016

Tarno Crop Management
Chris Tarno
P.O. Box 554
Piggott, AR, 72454

Ref: Analytical Testing
Lab Report Number: 16-182-0279
Client Project Description: Analytical Testing

Dear Chris Tarno:

Waypoint Analytical, Inc. received sample(s) on 6/30/2016 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2012) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Randy H. Thomas

Randy Thomas
Project Manager

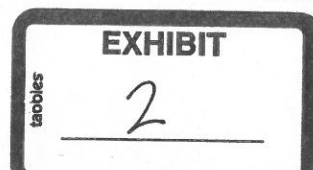
Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.

Alabama #40750 Louisiana #04015
Mississippi #2904 California #2904
Kentucky #90047 Tennessee #TN02027

VA NELAP #460181
NC #415
EPA #TN00012

Texas #T104704180-11-6
Oklahoma #9311
Kentucky UST #41

Arkansas #88-0650
Virginia #00106
Kansas #E-10396





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Client: Tamo Crop Management
Project: Analytical Testing
Lab Report Number: 16-182-0279
Date: 7/25/2016

CASE NARRATIVE

Phenoxy Acid Herbicides - GC/ECD Method SW-8151A

QC Batch No: L293740

Analyte was detected in both the primary and confirmatory analyses, with a relative percent difference (RPD) of greater than 40% between the two results. These results are flagged Q and the lower of the two values is reported. Analytes with RPD values greater than 100% are reported as non-detect.

Sample 96602 (#1)

QC Batch No: L293740

Surrogate(s) flagged for recovery outside QC limits in this project sample due to a required dilution. The dilution factor resulted in surrogate concentration(s) below the minimum detectable level. Batch QC samples (method blank and laboratory control samples) all showed surrogates within QC limits.



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18327

Tamo Crop Management
Chris Tamo
P.O. Box 554
Piggott, AR 72454

Project Analytical Testing
Information :

Report Date : 07/25/2016
Received : 6/30/2016

Randell H. Thomas

Report Number : 16-182-0279

REPORT OF ANALYSIS

Randy Thomas
Project Manager

Lab No : 96602

Sample ID : #1

Matrix: **Formulation**
Sampled:

Analytical Method: 8151A

Prep Batch(es): L293421 07/07/16 14:20

Prep Method: 8151A

| Test | Results | Units | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|-------------------|---------------|-------|-----------------|--------|----------------------|-----|------------------|
| 2,4-D | 106 Q | mg/Kg | 83.2 | 1000 | 07/12/16 17:20 | VIC | L293740 |
| Dalapon | <20.8 | mg/Kg | 20.8 | 100 | 07/12/16 17:03 | VIC | L293740 |
| 2,4-DB | <8.32 | mg/Kg | 8.32 | 100 | 07/12/16 17:03 | VIC | L293740 |
| Dicamba | 144000 | mg/Kg | 4160 | 100000 | 07/12/16 17:53 | VIC | L293740 |
| Dichlorprop | <41.6 | mg/Kg | 41.6 | 100 | 07/12/16 17:03 | VIC | L293740 |
| Dinoseb | <20.8 | mg/Kg | 20.8 | 100 | 07/12/16 17:03 | VIC | L293740 |
| MCPA | <416 | mg/Kg | 416 | 100 | 07/12/16 17:03 | VIC | L293740 |
| MCPP | <416 | mg/Kg | 416 | 100 | 07/12/16 17:03 | VIC | L293740 |
| Picloram | <10.4 | mg/Kg | 10.4 | 100 | 07/12/16 17:03 | VIC | L293740 |
| 2,4,5-T | <4.16 | mg/Kg | 4.16 | 100 | 07/12/16 17:03 | VIC | L293740 |
| 2,4,5-TP (Silvex) | <4.16 | mg/Kg | 4.16 | 100 | 07/12/16 17:03 | VIC | L293740 |
| Surrogate: DCAA | 0 * | | Limits: 20-150% | 100 | 07/12/16 17:03 | VIC | L293740 |

**Qualifiers/
Definitions**

* Outside QC limit
DF Dilution Factor
Q RPD >40% dual column results

B Analyte detected in blank
MQL Method Quantitation Limit



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Piggott, AR 72454

Project Analytical Testing
Information :

Report Date : 07/25/2016
Received : 6/30/2016

Randell H. Thomas

Report Number : 16-182-0279

REPORT OF ANALYSIS

Randy Thomas
Project Manager

Lab No : 96603

Sample ID : #2

Matrix: Solids
Sampled:

Analytical Method: 8151A
Prep Method: 8151A

Prep Batch(es): L293132 07/05/16 11:45

| Test | Results | Units | ML | DF | Date / Time Analyzed | By | Analytical Batch |
|-------------------|---------------|-------|-----------------|----|----------------------|-----|------------------|
| 2,4-D | <0.0304 | mg/Kg | 0.0304 | 1 | 07/07/16 17:02 | VIC | L293540 |
| Dalapon | <0.0763 | mg/Kg | 0.0763 | 1 | 07/07/16 17:02 | VIC | L293540 |
| 2,4-DB | <0.0304 | mg/Kg | 0.0304 | 1 | 07/07/16 17:02 | VIC | L293540 |
| Dicamba | 0.0043 | mg/Kg | 0.0030 | 1 | 07/07/16 17:02 | VIC | L293540 |
| Dichlorprop | <0.0304 | mg/Kg | 0.0304 | 1 | 07/07/16 17:02 | VIC | L293540 |
| Dinoseb | <0.0304 | mg/Kg | 0.0304 | 1 | 07/07/16 17:02 | VIC | L293540 |
| MCPA | <7.59 | mg/Kg | 7.59 | 1 | 07/07/16 17:02 | VIC | L293540 |
| MCPP | <7.59 | mg/Kg | 7.59 | 1 | 07/07/16 17:02 | VIC | L293540 |
| Picloram | <0.0076 | mg/Kg | 0.0076 | 1 | 07/07/16 17:02 | VIC | L293540 |
| 2,4,5-T | <0.0030 | mg/Kg | 0.0030 | 1 | 07/07/16 17:02 | VIC | L293540 |
| 2,4,5-TP (Silvex) | <0.0030 | mg/Kg | 0.0030 | 1 | 07/07/16 17:02 | VIC | L293540 |
| Surrogate: DCAA | 26.7 | | Limits: 20-150% | 1 | 07/07/16 17:02 | VIC | L293540 |

Qualifiers/
Definitions

* Outside QC limit
DF Dilution Factor
Q RPD >40% dual column results

B Analyte detected in blank
MQL Method Quantitation Limit



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Project Analytical Testing
Information:

Report Date : 07/25/2016

Received : 6/30/2016

Randell H. Thomas

Report Number : 16-182-0279

REPORT OF ANALYSIS

Randy Thomas
Project Manager

Lab No : 96604

Sample ID : Vision

Matrix: Formulation

Sampled:

Analytical Method: 8151A

Prep Batch(es): L293421 07/07/16 14:20

Prep Method: 8151A

| Test | Results | Units | MLQ | DF | Date / Time Analyzed | By | Analytical Batch |
|-------------------|----------|-------|-----------------|--------|----------------------|-----|------------------|
| 2,4-D | 118 | mg/Kg | 8.32 | 100 | 07/12/16 18:10 | VIC | L293740 |
| Dalapon | <20.8 | mg/Kg | 20.8 | 100 | 07/12/16 18:10 | VIC | L293740 |
| 2,4-DB | <8.32 | mg/Kg | 8.32 | 100 | 07/12/16 18:10 | VIC | L293740 |
| Dicamba | 220000 Q | mg/Kg | 4160 | 100000 | 07/12/16 19:00 | VIC | L293740 |
| Dichlorprop | <41.6 | mg/Kg | 41.6 | 100 | 07/12/16 18:10 | VIC | L293740 |
| Dinoseb | <20.8 | mg/Kg | 20.8 | 100 | 07/12/16 18:10 | VIC | L293740 |
| MCPA | <416 | mg/Kg | 416 | 100 | 07/12/16 18:10 | VIC | L293740 |
| MCPP | <416 | mg/Kg | 416 | 100 | 07/12/16 18:10 | VIC | L293740 |
| Picloram | <10.4 | mg/Kg | 10.4 | 100 | 07/12/16 18:10 | VIC | L293740 |
| 2,4,5-T | <4.16 | mg/Kg | 4.16 | 100 | 07/12/16 18:10 | VIC | L293740 |
| 2,4,5-TP (Silvex) | <4.16 | mg/Kg | 4.16 | 100 | 07/12/16 18:10 | VIC | L293740 |
| Surrogate: DCAA | 69.9 | | Limits: 20-150% | 100 | 07/12/16 18:10 | VIC | L293740 |

Qualifiers/
Definitions

*

Outside QC limit

B

Analyte detected in blank



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Cooler Receipt Form

Customer Number: 18327

Customer Name: Tarno Crop Management

Report Number: 16-182-0279

Shipping Method

☐ Fed Ex ☐ US Postal ☐ Lab ☐ Other :
☐ UPS ☒ Client ☐ Courier Thermometer ID: NA

Shipping container/cooler uncompromised? ☒ Yes ☐ No

Number of coolers received

Custody seals intact on shipping container/cooler? ☐ Yes ☐ No ☒ Not Required

Custody seals intact on sample bottles? ☐ Yes ☐ No ☒ Not Required

Chain of Custody (COC) present? ☒ Yes ☐ No

COC agrees with sample label(s)? ☒ Yes ☐ No

COC properly completed ☒ Yes ☐ No

Samples in proper containers? ☒ Yes ☐ No

Sample containers intact? ☒ Yes ☐ No

Sufficient sample volume for indicated test(s)? ☒ Yes ☐ No

All samples received within holding time? ☒ Yes ☐ No

Cooler temperature in compliance? ☒ Yes ☐ No

Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun. ☐ Yes ☒ No

Water - Sample containers properly preserved ☒ Yes ☐ No ☐ N/A

Water - VOA vials free of headspace ☐ Yes ☐ No ☒ N/A

Trip Blanks received with VOAs ☐ Yes ☐ No ☒ N/A

Soil VOA method 5035 – compliance criteria met ☐ Yes ☐ No ☒ N/A

☐ High concentration container (48 hr) ☐ Low concentration EnCore samplers (48 hr)
☐ High concentration pre-weighed (methanol -14 d) ☐ Low conc pre-weighed vials (Sod Bis -14 d)

Special precautions or instructions included? ☐ Yes ☒ No

Comments:

Any regulatory non-compliance issues will be recorded on non-compliance report.

Signature: Brieanna Jackson

Date & Time: 06/30/2016 17:41:26

| Client Name/Address | | Client Project Manager/Contact | | Billing Information | | For Laboratory Use Only | |
|--|---------|------------------------------------|--|--|--|---|--|
| TAMCO Crop Management 870-240-4282 P.O. Box 554 Piquette AR. 72454 | | Project Manager/Contact | | <input type="checkbox"/> RUSH - Additional charges apply <input type="checkbox"/> Special Detection Limit(s) Date Results Needed | | Method of Shipment <input type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Courier <input type="checkbox"/> Client Drop Off | |
| Project Description | | Project/Site Location (City/State) | | Project Manager Email | | Matrix Key | |
| Waypoint ANALYTICAL 2790 Whitten Road Memphis, TN 38133 (901) 213-2400 | | 870-240-4282 | | tawo@chrisg mail.com | | WW - Wastewater GW - Groundwater DW - Drinking Water S - Soil / Solid O - Oil P - Product M - Misc | |
| Project Number | | Project Manager Phone # | | Purchase Order Number | | Site/Facility ID # | |
| 136 | | 870-240-4282 | | | | | |
| Sample Identification | | Number of Containers | | Matrix (Refer to Key) | | Required Analysis / Preservative | |
| Date Time | | | | | | Comments/Notes | |
| 6-29 | #1 | 1 | | A | | Aqueous (lower) only | |
| 6-29 | #2 | 1 | | PT | | P/T | |
| 6-29 | VISION | 1 | | A | | 5 gallon Unopened | |
| TAMCO Crop Management Analytical Testing | | Barcode | | 15-182-0279 18327 06-30-2016 17:40:58 | | | |
| For Laboratory Use Only | | Lab Comments | | Sampled by (Name - Print) | | Client Remarks/Comments | |
| Ice | Custody | Seals | | Chris TAWO | | | |
| YN | YN | VISION BOX 5099 | | Relinquished by: (SIGNATURE) | | Date Time | |
| Blank/Cooler Temp | | Unopened | | Relinquished by: (SIGNATURE) | | Date Time | |
| NA | | MIL 6/30/16 | | Relinquished by: (SIGNATURE) | | Date Time | |